## WHAT IS CLAIMED IS:

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- 1. A method for producing a ketone compound, which comprises dehydrating and reducing an acyloin in the coexistence of an acid catalyst and a reduction catalyst and in the presence of hydrogen.
- 2. The method for producing a ketone compound according to claim 1, wherein the acid catalyst is phosphoric acids or solid acids.
- 3. The method for producing a ketone compound
  according to claim 1, wherein the acyloin is a 2hydroxycycloalkanone having from 12 to 18 carbon atoms.